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Earthquake Shaking Green Alert

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M 4.5, 17km SE of Ocotillo Wells, CA

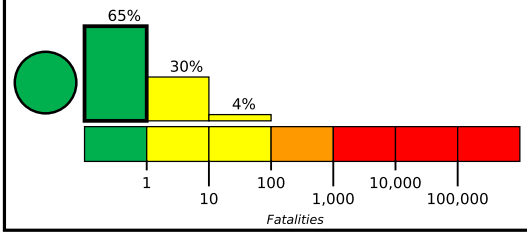
Origin Time: 2020-05-10 22:07:40 UTC (Sun 15:07:40 local)
Location: 33.0183° N 116.0202° W Depth: 10.2 km

PAGER Version 6

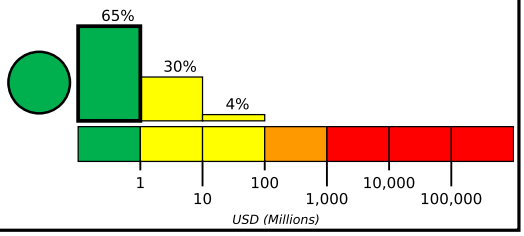
Created: 2 days, 17 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses



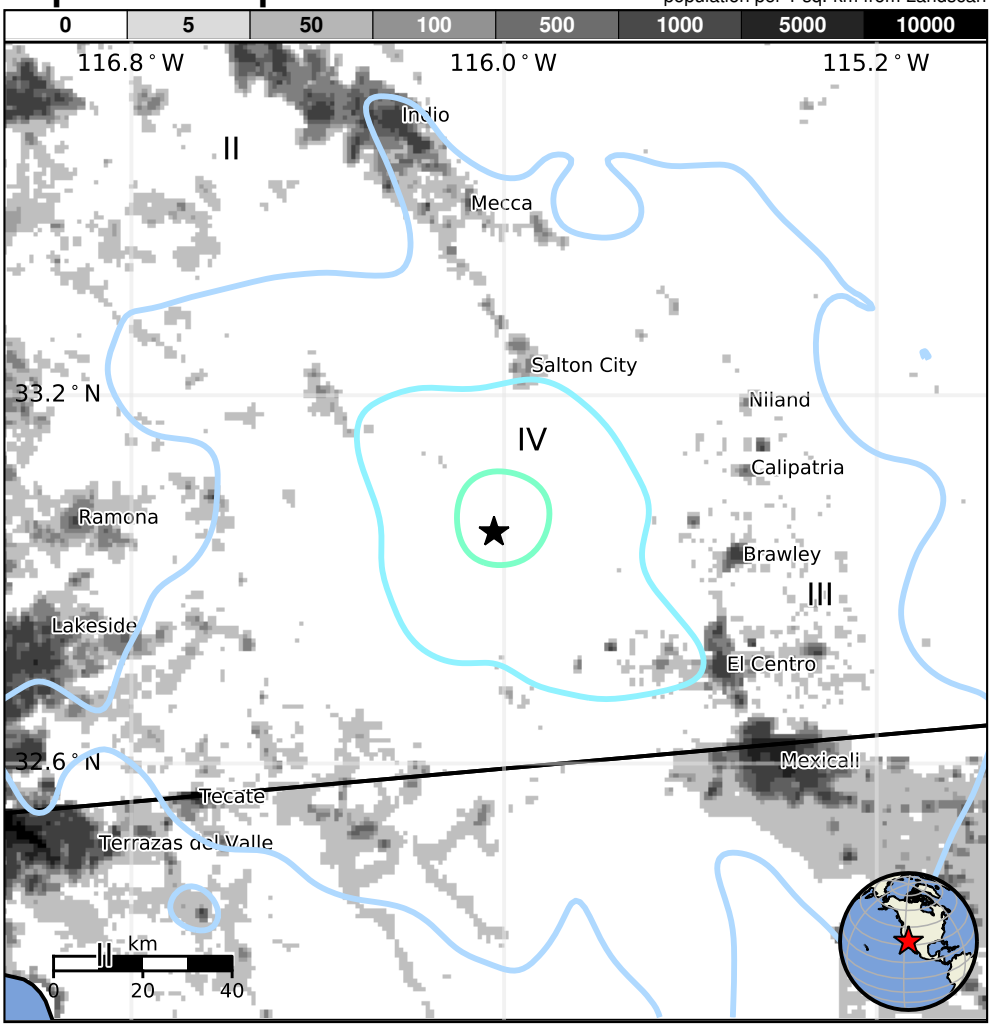
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	7,478k	22k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	228	5.6	VI(1,267k)	1
1992-06-28	138	7.3	VIII(23k)	1
1971-02-09	267	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeNames.org

MMI	City	Population
IV	Seeley	2k
III	Imperial	15k
III	**Salton City**	**4k**
III	Heber	4k
III	**El Centro**	**43k**
III	Vinas del Sol	3k
III	**Mexicali**	**597k**
II	Chula Vista	244k
II	Escondido	144k
II	San Diego	1,307k
II	Tijuana	1,376k

bold cities appear on map. (k=x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/ci38488354#pager

Event ID: ci38488354